4.19 Probability (Higher): 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

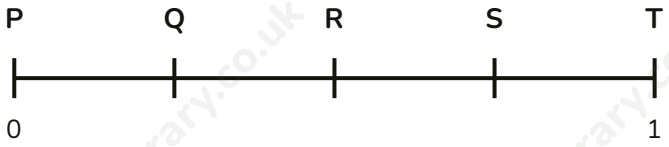
Answer ALL questions. Show all your working.

1 A fair six-sided die is rolled once. What is the probability of rolling an odd number?

(Total for Question 1 is 1 mark)

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2 The probability scale below shows five points, labelled P, Q, R, S and T, marked at equal intervals between 0 and 1.



(a) Sam rolls an ordinary fair dice numbered 1 to 6. Write down the letter of the point that best represents the probability that the score is less than 7. **(1)**

.....

(b) A card is picked at random from a standard, well-shuffled pack of 52 playing cards. Write down the letter of the point that best represents the probability that the card is a spade. **(1)**

.....

(c) A fair coin is flipped once. Write down the letter of the point that best represents the probability that it lands on tails. **(1)**

.....

(Total for Question 2 is 3 marks)

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3 A bag contains 5 red counters and 3 blue counters. A counter is taken at random. Work out the probability the counter is blue.

(Total for Question 3 is 2 marks)

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4 Chloe has a bag containing only 6 lime sweets, 5 blackcurrant sweets and 9 orange sweets. She takes one sweet from the bag at random. Work out the probability that the sweet is lime or blackcurrant. Give your answer as a fraction in its simplest form.

(Total for Question 4 is 2 marks)

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Mark scheme · 4.19 Probability (Higher): 10-minute Pack

Question 1

3/6 or 1/2 cao	**B1**

Answer: 1/2 (or 0.5 or 50%)

Question 2

(a) T cao	**B1**

(a) Answer: T

(b) Q cao	**B1**

(b) Answer: Q

(c) R cao	**B1**

(c) Answer: R

Question 3

correct fraction method 3/(5+3) oe	**M1**
3/8 cao	**A1**

Answer: 3/8

Question 4

(6+5)/20 oe	**M1**
11/20 cao	**A1**

Answer: 11/20

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